

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference OP100503/ANR	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/FI 2003/000013	International filing date (day/month/year) 09.01.2003	Priority date (day/month/year) 10.01.2002
International Patent Classification (IPC) or national classification and IPC H04Q 7/38, H04Q 7/22		
Applicant Nokia Corporation et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☒ (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input checked="" type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input checked="" type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand 23.06.2003	Date of completion of this report 08.03.2004
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Stefan Hansson/mj Telephone No. +46 8 782 25 00

Form PCT/IPEA/409 (cover sheet) (January 2004)

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2003/000013

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

☐ the international application as originally filed/furnished

☒ the description:

pages 1 - 7 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☒ the claims:

pages _____ as originally filed/furnished

pages* _____ as amended (together with any statement) under Article 19

pages* 8, 9 received by this Authority on 26.01.2004

pages* _____ received by this Authority on _____

☒ the drawings:

pages 1 - 3 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2003/000013

Box No. II Priority

1. ☐ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
- ☐ copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
- ☐ translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2. ☐ This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:

The priority is considered valid. Consequently, US 2002 193 139 and US 2002 111 180 are of no relevance.

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-8</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-8</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-8</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

The claimed invention

The claimed invention relates to a method for broadcasting of possibility to use 3G mobile communication network.

The claims have been amended.

The following documents were cited in the International Search Report:

D1: US 2001 036 827 A1
D2: US 2002 193 139 A1
D3: WO 00 62 573 A1
D4: US 2002 111 180 A1

D1 relates to a procedure for down loading cell information to mobiles in idle mode. D1 describes in paragraph [0003] that in connection with a GSM network, system information messages, i.e. data about the network that its mobiles need in order to communicate with the network, are continuously sent on the Broadcast Control Channel BCCH. D1 further describes in paragraph [0007] that it is proposed to use only one or a few bits on BCCH in combination with dedicated messages to download some or the complete UMTS (3G) information to dual or multimode mobiles.

D1 does not specify that the cell should be under control of a GERAN type radio access network having an Iu interface to a 3G core network. In D1, the notification about UMTS possibility is sent by a GSM cell. Also the message used to send the notification is different in D1 and the claimed invention. In the claimed invention, the SI3 message is used.

Consequently, the claimed invention as in claims 1-8 is novel, considered to involve an inventive step and has industrial applicability.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2003/000013

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
US 2002 193 139	19.12.02	12.03.02	
US 2002 111 180	15.08.02	08.02.02	

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)

Claims

1. A method for broadcasting of a possibility to use UMTS service in a cell under control of a GERAN type radio access network having an Iu interface to a 3G core network, a radio resource management system of the radio access network comprising a first and a second message, which messages are transferred on a first broadcast control channel in said cell, and which first message has at least one spare bit,
5 **characterized** in that that said first message is System Information 3 of GSM system, said spare bit is used (401) for indicating, whether said cell supports an UMTS service, and in a favourable case
10 - a second broadcast control channel is described (403; 405; 406) in the second message to at least Iu mobile stations, and
- UMTS service information for Iu mobile stations is broadcast on the second broadcast control channel.
- 15 2. The method of claim 1, **characterized** in that said first channel is BCCH of the GSM system and said second channel is PBCCH of the GSM system.
3. The method of claim 1, wherein the radio access network supports the UMTS-service and does not support a GPRS service, **characterized** in that said first message further comprises an Iu indicator field, and said second message is System
20 Information 13alt of the GSM system and is legible only to Iu mobile stations.
4. The method of claim 1, wherein the radio access network supports both the UMTS service and a GPRS service, **characterized** in that said second message is System Information 13 of the GSM system.
5. A method of claim 4, wherein the second channel is available also to the
25 GPRS service, **characterized** in that said message System Information 13 is legible only to Iu mobile stations and Gb mobile stations.
6. A method of claim 4, wherein the second channel is not available to the GPRS service, **characterized** in that a description of the second channel in the message System Information 13 is legible only to Iu mobile stations.
- 30 7. A method of claim 3, **characterized** in that said Iu indicator field indicates, whether normal BCCH or extended BCCH is used to transfer the second message.

8. The method of claim 1, **characterized** in that said cell is barred against UMTS operation through Iu interface by indicating with said spare bit that UMTS service is not supported in said cell.

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